BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

PRE-MEASUREMENT

Name of work: Improvements to Footpath in Ward No. 11, Byatarayanapura.

Estimated Cost : Rs. 30.00 Lakhs

Job Code: 011-23-000002

Head of Account : P-3726 Zonal Public Works - POW Works

Name of Agency: Sri. Venkateshappa. S, No. 88, Varadharajaswamy Layout, 1st Main Road, Singapura, near Aveksha Hospital, Vidyaranyapura Post, Bangalore - 560097.

Work order No: BBMP/EE/BTP/WO/186/2022-23 Dated: 20-03-2023.

Measurements Recarded on : 22-03-2023

Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
1	Removing and resetting of footpath slab (Approved arrival rate)						Sqm
	Covering Slab Drain						
	Main Road Thindlu	2	30.00		0.90	54.00	
		2	30.00		0.90	54.00	
		2	30.00		0.90	54.00	
		2	30.00		0.90	54.00	
		2	30.00		0.90	54.00	
		2	30.00		0.90	54.00	
		2	30.00		0.90	54.00	
		2	30.00		0.90	54.00	
		2	30.00		0.90	54.00	
		2	30.00		0.90	54.00	
		2	30.00		0.90	54.00	
		2	30.00		0.90	54.00	
		2	30.00		0.90	54.00	
		2	10.50		0.90	18.90	
		Total Qty =				**720.90**	
		Qty Ltd to App Qty =				**720.00**	Sqm

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Assistant Engineer
Ward No. 11, Byatarayanapura

Assistant Executive Engineer
Kodigehalli Sub-Division

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit
	Measurements Recarded on : 28-04-2023						
2	Earth work Excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.						Cum
	New RCC Drain						
	Thindlu Kunte Road N/S	1	30.00	1.00	1.00	30.00	
		1	30.00	1.00	1.00	30.00	
		1	30.00	1.00	1.00	30.00	
		1	30.00	1.00	1.00	30.00	
		1	30.00	1.00	1.00	30.00	
		1	30.00	1.00	1.00	30.00	
		1	18.10	1.00	1.00	18.10	
	Thindlu Kunte Road S/S	1	30.00	1.00	1.00	30.00	
		1	30.00	1.00	1.00	30.00	
		1	8.30	1.00	1.00	8.30	
		Total Qty =				**266.40**	
		Qty Ltd to App Qty =				**266.00**	Cum

Assistant Executive Engin
Kodigehalli Sub Divisio
BBMP, Bangalore

Assistant Engineer
Ward No. 11, Byatarayanapura

Assistant Executive Engineer
Kodigehalli Sub Division

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Kodigehalli Sub Division
BBMP, Bangalore

Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit
	Measurements Recarded on : 16-05-2023						
3	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite / trap / basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately **Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregate**						Cum
	Drain Vent Conrete						
	Thindlu Kunte Road N/S	1	30.00	1.00	0.15	4.50	
		1	30.00	1.00	0.15	4.50	
		1	30.00	1.00	0.15	4.50	
		1	30.00	1.00	0.15	4.50	
		1	30.00	1.00	0.15	4.50	
		1	30.00	1.00	0.15	4.50	
		1	18.10	1.00	0.15	2.72	
	Thindlu Kunte Road S/S	1	30.00	1.00	0.15	4.50	
		1	30.00	1.00	0.15	4.50	
		1	8.30	1.00	0.15	1.25	
		Total Qty =				**39.96**	
		Qty Ltd to App Qty =				**39.90**	
	Qty upto 125%					**24.00**	
	Qty above 125%					**15.90**	Cum

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Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit
	Measurements Recarded on : 25-03-2023						
4	Removing and resetting of kerb stone (Approved arrival rate)						Mtrs
	Thindlu Main Road	2	30.00			60.00	
		2	30.00			60.00	
		2	15.50			31.00	
			Total Qty =			151.00	
			Qty Ltd to App Qty =			150.00	Mtrs

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Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit
	Measurements Recarded on : 16.05.2023						
5	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately)						Cum
	Raft						
	Thindlu Kunte Road N/S	1	30.00	0.90	0.15	4.05	
		1	30.00	0.90	0.15	4.05	
		1	30.00	0.90	0.15	4.05	
		1	30.00	0.90	0.15	4.05	
		1	30.00	0.90	0.15	4.05	
		1	30.00	0.90	0.15	4.05	
		1	18.10	0.90	0.15	2.44	
	Thindlu Kunte Road S/S	1	30.00	0.90	0.15	4.05	
		1	30.00	0.90	0.15	4.05	
		1	8.30	0.90	0.15	1.12	
	Side Wall						
	Thindlu Kunte Road N/S	2	30.00	0.15	0.60	5.40	
		2	30.00	0.15	0.61	5.49	
		2	30.00	0.15	0.59	5.31	
		2	30.00	0.15	0.58	5.22	
		2	30.00	0.15	0.61	5.49	
		2	30.00	0.15	0.60	5.40	
		2	18.10	0.15	0.59	3.20	
	Thindlu Kunte Road S/S	2	30.00	0.15	0.61	5.49	
		2	30.00	0.15	0.60	5.40	
		2	8.30	0.15	0.59	1.47	
				Total Qty =		**83.84**	
				Qty Ltd to App Qty =		**83.79**	Cum

E.E. (BTP. DIV)

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Assistant Engineer
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Kodigehalli Sub-Division

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

New Ward No. 11

Pre-Measurement

Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit
	Measurements Recarded on : 18.05.2023						
6	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.						Tonne
	U Shape Drains	**No**	**L**	**Mtrs**	**Kg/m**	**Kgs**	
	Thindlu						
	Thindlu Kunte Road N/S						
	10 mm dia	1981	2.10	4160.10	0.62	2579.26	
	8 mm dia	16	198.10	3169.60	0.39	1236.14	
	Total					**3815.41**	
	Thindlu Kunte Road S/S						
	10 mm dia	621	2.10	1304.10	0.62	808.54	
	8 mm dia	16	68.30	1092.80	0.39	426.19	
	Total					**1234.73**	
						5050.14	Kgs
		Total Qty =				5.05	
		Qty Ltd to App Qty =				5.03	Tonne

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BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

RA 1ST AND FINAL BILL

Name of work: Improvements to Footpath in Ward No. 11, Byatarayanapura.

Estimated Cost : Rs. 30.00 Lakhs

Job Code: 011-23-000002

Head of Account : P-3726 Zonal Public Works - POW Works

Name of Agency: Sri. Venkateshappa. S, No. 88, Varadharajaswamy Layout, 1st Main Road, Singapura, near Aveksha Hospital, Vidyaranyapura Post, Bangalore - 560097.

Work order No: BBMP/EE/BTP/WO/186/2022-23 Dated: 20-03-2023.

Measurements Recarded on : 17-06-2023

Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit	Rate	Amount
1	Removing and resetting of footpath slab (Approved arrival rate)								
	Qty as per Premeasurement Recorded vide E-Bill Page No. 01 is =					**720.00**	Sqm	200.00	**144000.00**
2	Earth work Excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.								
	Qty as per Premeasurement Recorded vide E-Bill Page No. 02 is =					**266.00**	Cum	180.00	**47880.00**
3	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite / trap / basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately **Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregate**								
	Qty as per Premeasurement Recorded vide E-Bill Page No. 03 is =					**39.90**	Cum		
	Qty upto 125%					**24.00**		5500.00	**132000.00**
	Qty above 125%					**15.90**		4830.19	**76800.00**
4	Removing and resetting of kerb stone (Approved arrival rate)								
	Qty as per Premeasurement Recorded vide E-Bill Page No. 04 is =					**150.00**	Mtrs	100.00	**15000.00**

Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit	Rate	Amount
5	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately)								
	Qty as per Premeasurement Recorded vide E-Bill Page No. 05 is =					**83.79**	Cum	6500.00	**544635.00**
6	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.								
	Qty as per Premeasurement Recorded vide E-Bill Page No. 06 is =					**5.03**	Tonne	85000.00	**427550.00**
7	Providing and Fixing pre cast Covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting, including form work,curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, copmplete.						Sqm		
	Covering Slab								
	Thindlu Kunte Road N/S	1	30.00	0.90		27.00			
		1	30.00	0.90		27.00			
		1	30.00	0.90		27.00			
		1	30.00	0.90		27.00			
		1	30.00	0.90		27.00			
		1	30.00	0.90		27.00			
		1	18.10	0.90		16.29			
	Thindlu Kunte Road S/S	1	30.00	0.90		27.00			
		1	30.00	0.90		27.00			
		1	8.30	0.90		7.47			
						239.76			
						239.40	Sqm	1800.00	**430920.00**

EE (BTP. DIV)

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Assistant Engineer
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Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit	Rate	Amount
	Measurements Recarded on :								
8	Supplying and fixing M15 grade precast cement concrete 600 x 300 x 150 mm Kerb Stone for Roadway, Sidewalls and gutters fixed with CM 1:3 fixed and finsihed in line as per direction of Engineer in charge.						Mtrs		
	Kerb Stones								
	Thindlu Kunte Road N/S	1	30.00			30.00			
		1	30.00			30.00			
		1	30.00			30.00			
		1	30.00			30.00			
		1	30.00			30.00			
		1	30.00			30.00			
		1	18.10			18.10			
	Thindlu Kunte Road S/S	1	30.00			30.00			
		1	30.00			30.00			
		1	8.30			8.30			
						266.40			
	Total					**266.00**	Mtrs	330.00	**87780.00**

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Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit	Rate	Amount
	Measurements Recarded on :								
9	Painting Two Coats on New Concrete Surfaces Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces.						Sqm		
	Kerb Stone Painting								
	Thindlu Kunte Road N/S	1	30.00		0.35	10.50			
		1	30.00		0.35	10.50			
		1	30.00		0.35	10.50			
		1	30.00		0.35	10.50			
		1	30.00		0.35	10.50			
		1	30.00		0.35	10.50			
		1	18.10		0.35	6.34			
	Thindlu Kunte Road S/S	1	30.00		0.35	10.50			
		1	30.00		0.35	10.50			
		1	8.30		0.35	2.91			
						93.24 93.25			
	Total					**93.10**	Sqm	85.00	**7914.00**
10	Supplying and filling in plinth with sand under floors, foundation of Bridges including watering, ramming, consolidating and dressing complete.						Cum		
	Pathway		Not Executed			0.00			
						0.00		1700.00	**0.00**
11	Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per m2 over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level , including cost of materials, labour and Usage charges of machinery complete as per specifications						Sqm		
	Cobble Stones		Not Executed			0.00			
						0.00		510.00	**0.00**
12	Loading and Unloading of Stone Boulder / Stone aggregates / Sand / Kankar / Moorum. (Tipper 14 m3)						Cum		
	Qty Vide Item No- (2)					239.40			
	Total					**239.40**		60.00	**14364.00**
13	Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km						T.Km		
	Qty frm Item No-11		239.40	1.28		306.43			
	Total					**306.43**		62.00	**18999.00**
							Grand Total		**1947842.00**
							Round off		1947000.00

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